

3. Claim Objections

Reference to both claims 5 and 6 has been changed to a reference to claim 5 to remove the improper format of claim 7 objected to under 35 U.S.C. § 112

4. Claim Rejections - 35 USC § 112

I believe that the rewritten claims 5-9 point out and distinctly claim the subject matter which is regarded as the invention.

5. Claim Rejections - 35 USC § 112

Amended claims 5-9 particularly point out and distinctly claim the subject matter which is regarded as the invention by describing the steps in the generation and implementation of hybrid Walsh and generalized hybrid Walsh CDMA codes, multiple data rate hybrid Walsh encoding, and fast algorithms for encoding and decoding of hybrid Walsh codes in sufficient detail that enables one versed in CDMA communications to generate and implement these codes in CDMA transmitter encoders and receiver decoders.

Claim 5 has been amended to include the antecedent basis in the claim.

Claim 6 has been amended to include application examples for the menu of alternative implementation techniques for generation of generalized hybrid Walsh CDMA codes which menu includes tensor products, direct products, and functional combining. These examples clearly define the steps required for their generation and implementations in the transmitter encoder and in the receiver decoder for CDMA communications. The last technique which combines two or more of the previous has a self-evident implementation from these example implementations. These examples clearly define which operations are utilized and which

are not utilized to create the generalized hybrid Walsh codes and to implement them in CDMA communications.

6. Claim Rejections - 35 USC § 112

Amended claims **5-9** have been rewritten to attempt to remove narrative and indefinite and functional language and to include steps for implementation of the claims in CDMA communications applications. The nature of the claims requires mathematical formulations and the amendments have restated these formulations to be clear and concise and have added the corresponding steps to describe their implementation in CDMA transmitter encoders and receiver decoders.

Claims **5-6** have been rewritten as described in the previous to point out and distinctly claim the subject matter which is regarded as the invention.

Claims **7-9** have been amended to include the steps required to implement the mapping of the multiple data rate input data symbol vector onto the code vector for a block code in claim **7**, to implement the fast encoding algorithm in the transmitter encoder in claim **8**, and to implement the fast decoding algorithm in the receiver decoder in claim **9**. These rewritten claims are believed to point out and distinctly claim the subject matter which is regarded as the invention.

8. Conclusions

I believe that the rewritten claims **5-9** now include the essential structural cooperative relationships of elements, provide the antecedent relationships, clearly define the operations utilized and not utilized, provide steps in the construction and implementation such that one versed in CDMA communications can implement the claims in CDMA transmitter encoders and CDMA receiver decoders, and meet the **35 USC 112** standards.

Thanks ever for your help.

Sincerely,

A handwritten signature in cursive script that reads "Urbain A. von der Embse". The signature is written in black ink and is positioned to the right of the word "Sincerely,".

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